1. Write a Python Program to Check if a Number is Odd or Even?

num=float(input("enter any number"))

if num>0:

print("{0} is positive number".format(num))

elif num==0:

print("{0} is equals to zero".format(num))

else:

print("{0} is a negative number".format(num))

1. Write a Python Program to Check Leap Year?

year=int(input("enter year"))

if year%400==0 or year%4==0 and year%100!=0:

print("leap year")

else:

print("not leap year")

1. Write a Python Program to Check Prime Number?

n=int(input("enter number"))

if(n>1):

for i in range(2,int(n/2)+1):

if(n%i)==0:

print("it is not prime")

break

else:

print("it is prime")

else:

print("it is not prime")

1. Write a Python Program to Print all Prime Numbers in an Interval of 1-10000?

x=int(input("enter lower interval"))

y=int(input("enter upper interval"))

for i in range(x,y+1):

if i>1:

for j in range(2,i):

if(i%j)==0:

break;

else:

print(i)